

Notice of Allowability

Application No.

10/756,084

Examiner

Chih-Cheng Glen Kao

Applicant(s)

NEUMEIER ET AL.

Art Unit

2882

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 6/27/05.
2. ☒ The allowed claim(s) is/are 8-12, 14, 15 and 17-20.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Steven Noll on July 6, 2005.

2. The application has been amended as follows:

In claim 8, line 16, in the phrase "leg surface facing said and"; delete "said"

In claim 8, line 16, in the phrase "and contacting exterior surface"; insert - -said- - after
"contacting"

In claim 12, line 2, in the phrase "through which an electron beam proceeding"; replace
"proceeding" with - - proceeds, - -

In claim 12, line 3; delete "said projection"

In claim 12, line 3; delete the comma

In claim 12, line 11; replace "combine" with - -contact- -

In claim 12, line 12; delete "to form a channel"

In claim 14, line 1, in the phrase "in claim 13"; replace "13" with - -12- -

In claim 20, line 1; insert - -further- - before "comprising"

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In the specification on page 5, line 16, in the phrase “the central ray Z”;

replace “Z” with - -ZS- -

In the specification on page 6, line 3; delete “25”

In the specification on page 7, line 1; replace “33” with - -32- -

In the specification on page 7, line 2, in the phrase “Figure 1”; replace “1” with - -3- -

In the specification on page 7, line 3; in the phrase “a deflector to generate”;

insert - -31- - after “deflector”

3. The following changes to the drawings have been approved by the examiner and agreed upon by applicant: deleting reference number 28 in Figure 2. In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

Reasons for Allowance

4. Claims 8-12, 14, 15, and 17-20 are allowed.

The following is an examiner’s statement of reasons for allowance.

5. Regarding claim 8, prior art does not disclose or fairly suggest an x-ray source including an electron beam deflector having a U-shape with two legs straddling a neck region at a corner, each of said legs having a leg surface facing and contacting said exterior surface of said corner, and each leg surface in combination with an exterior surface of said corner forming a channel adapted to allow a flow of coolant therethrough, in combination with all the limitations in the claim. Claims 9-11, 17, and 18 are allowed by virtue of their dependency.

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6. Regarding claim 12, prior art does not disclose or fairly suggest a method for cooling an X-ray tube including the step of forming a channel for a coolant by placing respective legs of an electron beam deflector directly over an exterior surface of a corner to contact each leg surface with the exterior surface of said corner, in combination with all the limitations in the claim. Claims 14, 15, 19, and 20 are allowed by virtue of their dependency.

Conclusion

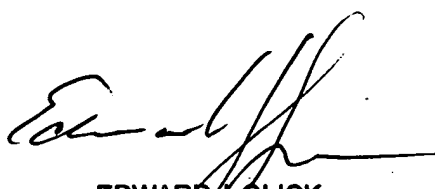
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chih-Cheng Glen Kao whose telephone number is (571) 272-2492. The examiner can normally be reached on M - F (9 am to 5 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ed Glick can be reached on (571) 272-2490. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


gk
EDWARD J. GLICK
SUPERVISORY PATENT EXAMINER